BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

NAME OF WORK: -Improvements to Roads and Drains at Thindlu colony and Surrounding areas in Ward No. 10 Byatarayanapura .

DETAILED COST ESTIMATE

Estimate Cost : Rs.12.68 Lakhs

SL NO	PARTICULARS	UNIT	NO	MEASUREMENT			QUANTITY	RATE	AMOUNT
				LENGTH	BREADTH	DEPTH			
1	Removing and resetting of footpath slab (Approved arrival rate)								
	Cross Road	Sqm	1.00	290.00	0.90		261.00		
	Cross Road	Sqm	2.00	25.00	0.90		45.00		
	Cross Road	Sqm	2.00	25.00	0.90		45.00		
	Cross Road	Sqm	2.00	60.00	0.90		108.00		
	Cross Road	Sqm	2.00	95.00	0.90		171.00		
	Cross Road	Sqm	1.00	65.00	0.90		58.50		
	Cross Road	Sqm	1.00	60.00	0.90		54.00		
	Cross Road	Sqm	1.00	30.00	0.90		27.00		
					Sub Total		769.50		
	Deduct 25% Missing Slabs						192.375		
					Total		**577.1**	**235.00**	**135624.38**
	Data Rate	**235.00**							
2	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-5/ Item no:-1.4.1]								
		Drain Disilting							
	Cross Road	Cum	1.00	290.00	0.60	0.45	78.30		
	Cross Road	Cum	2.00	25.00	0.60	0.45	13.50		
	Cross Road	Cum	2.00	25.00	0.60	0.45	13.50		
	Cross Road	Cum	2.00	60.00	0.60	0.45	32.40		
	Cross Road	Cum	2.00	95.00	0.60	0.45	51.30		
	Cross Road	Cum	1.00	65.00	0.60	0.45	17.55		
	Cross Road	Cum	1.00	60.00	0.60	0.45	16.20		
	Cross Road	Cum	1.00	30.00	0.60	0.45	8.10		
	New Drain	Cum	1.00	40.00	1.10	1.00	44.00		
	New RCC Culvert	Cum	1.00	5.00	1.50	1.00	7.50		
	New RCC Culvert	Cum	1.00	8.00	1.50	1.00	12.00		
					Total		**294.35**	**266.20**	**78355.97**
	Basic Rate	**242.00**							
	Add AW 10%	24.20							
	Total	**266.20**							
3	Providing and laying in position Cement Concrete for **levelling course** for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. **Mix 1:3:6 Using 40 mm nominal size graded crushed coarse aggregates**[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-15/ Item no:-2.1.3]								
	New Drain	Cum	1.00	40.00	0.90	0.15	5.40		
	New RCC Culverts	Cum	1.00	5.00	1.30	0.15	0.98		
	New RCC Culverts	Cum	1.00	8.00	1.30	0.15	1.56		
					Sub-Total B		**7.94**		
					Total A+B		**7.94**	**6587.90**	**52274.99**
	Basic Rate	**5989.00**							
	Add AW 10%	598.90							
	Total	**6587.90**							

4	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, **Drain works** & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.**M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates**[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.2]									
	New Drain									
	For Raft	Cum	1.00	40.00	0.90	0.15	5.40			
	For Side Wall	Cum	2.00	40.00	0.15	0.60	7.20			
	For New RCC Culvert				**Sub-Total A**		12.60			
	For Raft	Cum	1.00	5.00	1.30	0.15	0.98			
			1.00	8.00	1.30	0.15	1.56			
	For Side Wall	Cum	2.00	5.00	0.23	0.90	2.07			
			2.00	8.00	0.23	0.90	3.31			
					Sub-Total B		7.92			
					Total A+B		**20.52**	**7650.83**	**156972.08**	
	Basic Rate	**6323.00**								
	Add AW 10%	632.30								
	Sub-Total	**6955.30**								
	Centering & Shuttering 10%	695.53								
	Total	**7650.83**								
5	Steel Fabrication,Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all									
	CULVERT[90kg/cum]	Tonne	1.00	7.92		90.00	712.53			
						Tonne	0.71			
	DRAIN[65Kg/cum]	Tonne	1.00	12.60		65.00	819.00			
						Tonne	0.82			
					Total		**1.53**	**86912.10**	**133108.49**	
	Basic Rate	**79011.00**								
	Add AW 10%	7901.10								
	Sub-Total	**86912.10**								
6	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/ m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete[PWD SR 2023-24/ Volume-2/ Chapter-2/P.NO-177/ Item no:-17.14]									
	New CC Slabs - 100mm									
	Quantity From Damaged/missing Slabs	Sqm	1.00	192.38			192.38			
	New Drain	Sqm	1.00	40.00	0.90		36.00			
					Total		**228.38**	**1287.00**	**293918.63**	
	Basic Rate	**1170.00**								
	Add AW 10%	117.00								
	Sub-Total	**1287.00**								
7	Providing and fixing 230mm thick pre cast reinforced concrete slab as per design and drawing material cost,transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials(As per data rate)									
	New CC Slabs - 230mm									
	For New RCC Culvert Bed Concrete	Sqm	1.00	8.00	1.50		12.00			
		Sqm	1.00	6.00	1.50		9.00			
					Total		**21.00**	**5037.00**	**105777.00**	
	Data Rate	**5037.00**								
8	Unload ing, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 a]									
	Quantity From Item 3	Cum	1.00	294.35			294.35			
					Total		**294.35**	**148.50**	**43710.98**	
	Basic Rate	**135.00**								
	Add AW 10%	13.50								
	Total	**148.50**								

9	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 iii A]								
	Quantity from Item No-1	t.km	1.00	294.35	1.28		376.77		
						Total	376.77	198.00	74600.06
	Basic Rate	**12.00**							
	15KM LEAD [12*15=180]	180.00							
	Add AW 10%	18.00							
	Total	**198.00**							
							Total		1074342.56
							GST 18%		193381.66
							Miscelleneous		275.78
							Grand Total		**1268000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2022-23 , and Data Rates.

Assistant Engineer
Ward 10, Kodigehalli Sub-Division
BBMP

Asst. Executive Engineer
Kodigehalli Sub-Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP
ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

ADMINISTRATIVE SANCTION

Accorded for Rs. 12.68 Lakhs

Head of A/c. P-1878

Div. Ref. No. 54 Date. 01/02/24

AE/DM

EE(BTP) BBMP

TECHNICAL SANCTION

Accorded for Rs. 12.68 Lakhs

Head of A/c. P-1878

Div. Ref. No. 28 Date. 01/02/24

AE/DM

EE(BTP) BBMP

ADMINISTRATIVE SANCTION

Accorded for Re.....

Head of Allo.....

Dir. Ref. No..... Date.....

ADSM EE(ETP) DTEIEP

TECHNICAL SANCTION

Accorded for Re.....

Head of Allo.....

Dir. Ref. No..... Date.....

ADSM EE(ETP) DTEIEP